

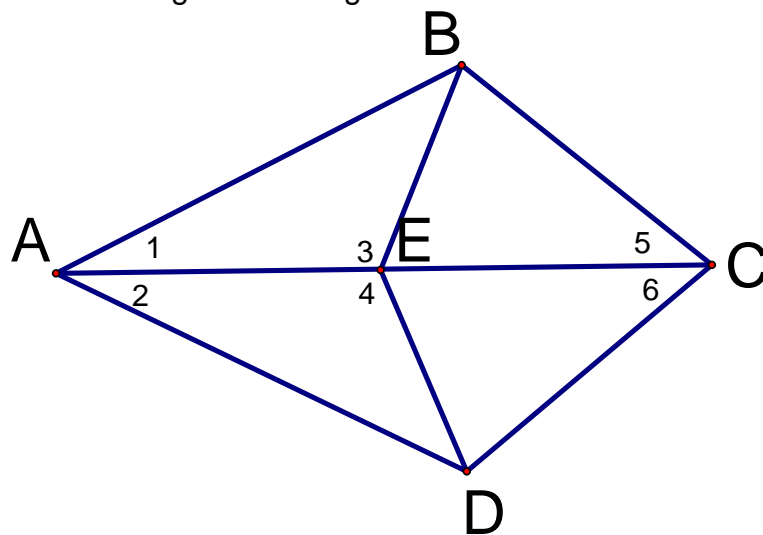
Name _____

Date _____

201 Using More than One Pair of Congruent Triangles

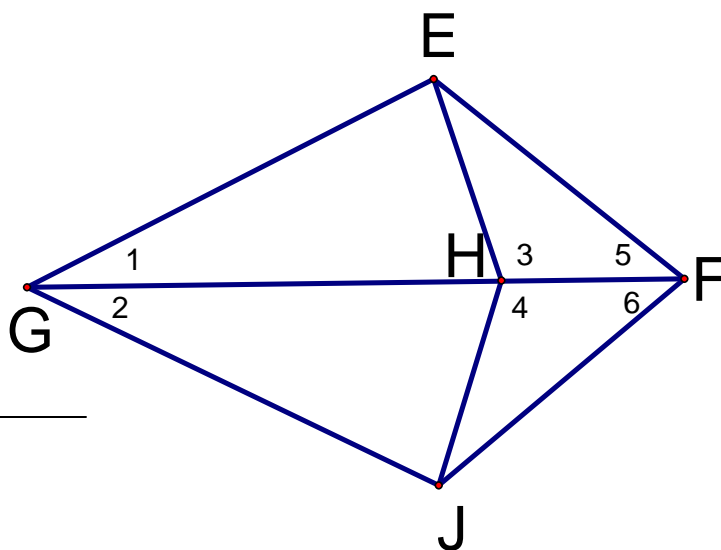
1. Given: $\angle 1 \cong \angle 2$; $\angle 5 \cong \angle 6$
 Prove: $\angle 3 \cong \angle 4$

Statements	Reasons
1. ~	1.
2. $\overline{AC} \cong \overline{AC}$	2.
3. $\triangle ABC \cong \triangle ADC$	3.
4. $\overline{AB} \cong \overline{AD}$	4.
5. $\overline{AE} \cong \overline{AE}$	5.
6. $\triangle ABE \cong \triangle ADE$	6.
7. $\angle 3 \cong \angle 4$	7.

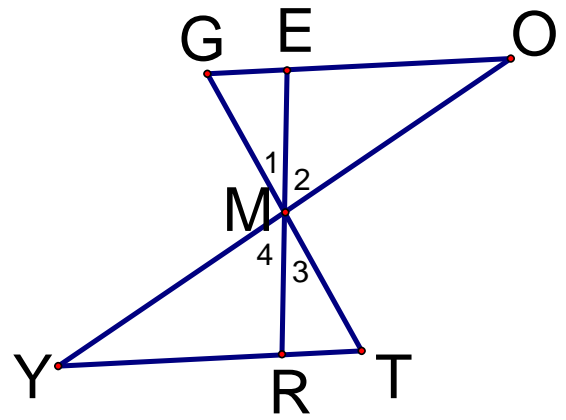


2. Given: $\overline{GE} \cong \overline{GJ}$; $\overline{EF} \cong \overline{JF}$
 Prove: $\overline{EH} \cong \overline{JH}$

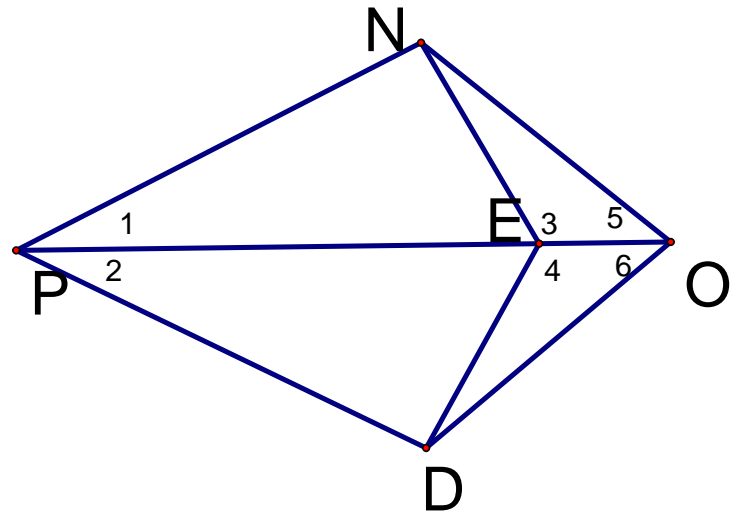
Statements	Reasons
1. ~	1.
2. $\overline{GF} \cong \overline{GF}$	2.
3. $\triangle GEF \cong \triangle GJF$	3.
4. $\angle 5 \cong \angle 6$	4.
5. $\overline{HF} \cong \overline{HF}$	5.
6. $\triangle EHF \cong \triangle JHF$	6.
7. $\overline{EH} \cong \overline{JH}$	7.



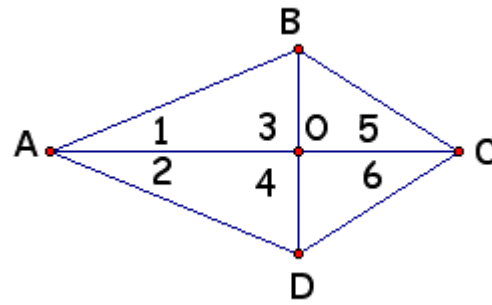
3. Given: M is the midpoint of \overline{GT} and \overline{OY}
 Prove: $\overline{EM} \cong \overline{RM}$



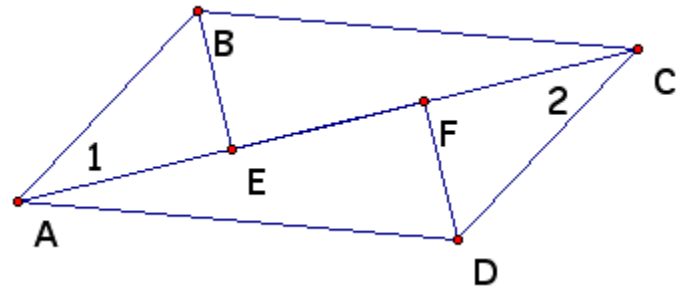
4. Given: $\angle 3 \cong \angle 4$; $\angle 5 \cong \angle 6$
 Prove: $\angle PNO \cong \angle PDO$



5.

Given: $\angle 1 \cong \angle 2$; $\angle 5 \cong \angle 6$ Prove: $\overline{AC} \perp \overline{BD}$ 

6.

Given: $\overline{AC} \perp \overline{BE}$; $\overline{AC} \perp \overline{FD}$; $\overline{BC} \cong \overline{AD}$; $\overline{BA} \cong \overline{CD}$ Prove: $\overline{BE} \cong \overline{FD}$ 

7.

Given: $\overline{GJ} \cong \overline{KT}$;A is the midpoint of \overline{RN} ; $\overline{RJ} \perp \overline{GT}$; $\overline{KN} \perp \overline{GT}$ Prove: $\angle G \cong \angle T$ 